

SOV/124-57-4-4591

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 4, p 103 (USSR)

AUTHOR: Rukhadze, A. K.

TITLE: The Problem of the Flexure of Naturally Twisted Prismatic Bars Composed of Various Elastic Materials Under the Action of a Transverse Force (Zadacha izgiba poperechnoy siloy yestestvenno zakruchennykh prizmaticheskikh brus'yev, sostavlennyykh iz razlichnykh uprugikh materialov)

PERIODICAL: Tr. Gruz. politekhn. in-ta, 1956, Nr 1 (42), pp 65-76

ABSTRACT: A study of the elastic equilibrium of a so-called naturally twisted, composite, prismatic bar under the conditions arising when the forces acting on the end surface $z=l$ are equivalent to the deflecting force. It is assumed that the axis $0 \rightarrow z$ is perpendicular to the plane of the fixed end of the bar, the angular displacement of the z section with respect to this end being determined by the angle $\alpha = kz$ (where $k = \text{constant}$), the second and higher powers of which may be neglected. By utilizing the transformation by P. M. Riz (Izv. AN SSSR, ser. mat., 1939, Nr 4)

Card 1/2

$$\xi = x - kyz, \quad \eta = y + kxz, \quad \zeta = z$$

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The Problem of the Flexure of Naturally Twisted Prismatic Bars (cont.)

the problem of the flexure of a twisted composite bar, studied in the space xyz , is formally reduced (in the space $\xi\eta\zeta$) to a problem on the deformation of a plain, prismatic, composite bar subjected to a lateral loading which, in addition to being a function of the variables ξ and η , is also a function of the square of the variable ζ . [Transl. Note: An empty space appears in the Russian original]; the equations of equilibrium and strain compatibility also contain expressions for complex body forces. In the case of plane composite regions of the bar, the author reduces the three-dimensional problem to boundary problems for harmonic and biharmonic functions. It is demonstrated that a solution exists for these boundary problems.

G. M. Khatishvili

Card 2/2

SOV/124-58-11-13009

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 11, p 164 (USSR)

AUTHORS: Rukhadze, A. K. , Dolidze, D. N.

TITLE: Second-order Effects in the Problem of Flexure of a Homogeneous Prismatic Bar Subjected to the Action of a Transverse Force
(Vtorichnyye efekty v zadache izgiba poperechnoy siloy odnorodnogo prizmaticheskogo brusa)

PERIODICAL: Tr. Gruz. politekhn. in-t, 1957, Nr 4 (52), pp 49-62

ABSTRACT: The problem is solved by the small-parameter method. The solution of the problem reduces to the evaluation of five functions two variables; these functions must satisfy two Laplace equations, one Poisson equation, two biharmonic equations, and certain boundary conditions which determine the existence of these functions. The solution obtained for the problem under consideration satisfies all conditions, with the exception of conditions existing on the ends of the bar. To satisfy these latter conditions also, the solutions obtained must be augmented with a solution of a certain linear de Saint-Venant problem which neutralizes the excess stresses on the ends of the bar.

Card 1/1

A. Ya. Gorgidze

Kukhadze, A.K.

KVALIASHVILI, A.A.; KUKHADZE, A.K.; GEORGADZE, K.L.; GVENTADZE, B.R.

Using radioactive iodine (J-131) in the diagnosis of brain tumors.
Soob. AN Gruz. SSR 19 no.3:363-367 S '57. (MIRA 11:5)

1. Tbilisskiy gosudarstvennyy meditsinskiy institut. Predstavleno
akademikom K.D. Kistavi.

(BRAIN--TUMORS) (IODINE--ISOTOPES)

RUKHADZE, Aleksandr Konstantinovich; RUDAKOV, Veniamin Fedorovich;
DROKHANOVA, Ye.N., red.; MARAKASOVA, L.P., tekhn. red.;
YELAGIN, A.S., tekhn. red.

[Industries of the southern Urals] Industriia Iuzhnogo Urala.
Moskva, Sovetskaja Rossiia, 1962. 141 p. (MIRA 15:7)
(Ural Mountain region--Industries)

RUKHADZE, A.V.

Experimental investigation of seismic ground pressure on
bearing walls. Trudy Inst. stroi. mekh. i seism. AN Gruz.
10:23-29 '64. (MIRA 18:11)

RUKHADZE, A.V.

Determining the losses of prestressing force in reinforced concrete.

Trudy Inst. stroi.mekh. i seism. AN Gruz. SSR 9:63-70 '63.

(MIRA 17:12)

KASHAKASHVILI, N.V.; SHARADZENIDZE, S.A.; MALYSHEV, S.I.; CHKHEIDZE, Z.A.
GIBRADZE, Sh.S.; KHOSHTARIYA, Sh.F.; RUKHADZE, D.A.; SHARASHIDZE,
S. Sh. Primali uchastiyat: SHENGELAYA, V.; CKROMCHEDLISHVILI,
Sh.; POPIASHVILI, Sh.; LOLUA, K.; MINDELI, M.; TSKHELISHVILI, D.;
GORDEZIANI, N.; ODIKADZE, Ch.; TATARADZE, Z.; KHUTSISHVILI, A.

Production and use of highly basic, open-hearth furnace sinters
from Dashkesan iron ore. Trudy GPI [Gruz.] no. 4: 25-32 '62
(MIRA 17:8)

RUKHADZE, D.A., inzh.; GORDEZIANI, N.N., inzh.

Determining the optimum height of high-basicity sinter
burdens. Stal' 20 no. 12:1074 D '60. (MIRA 13:12)
(Sintering)

MALYSHEV, S.I., inzh.; KHOSHTARIYA, Sh.F., inzh.; GLADKOSKOK, P.P., inzh.;
RADCHENKO, F.G., inzh.; Primali uchastiye: BOKOLISHVILI, Sh.S.;
RUKHADZE, R.I.; SHARASHIDZE, S.Sh.; BEREZHNOY, N.; GORDEZIANI, N.N.;
RUKHADZE, D.A.; TATARADZE, Z.

Mastering the sintering of Dashkesan ores as acceptable charge for
open-hearth furnaces. Stal' 20 no. 7:584-590 J1 '60. (MIRA 14:5)

1. Zakavkazskiy metallurgicheskiy zavod.
(Dashkesan---Iron ores) (Sintering)
(Open-hearth furnaces---Equipment and supplies)

SHARADZENIDZE, S.A.; KASHAKASHVILI, N.V.; GLADKOSKOK, P.P.; MINDELI, M.Sh.;
PARASTASHVILI, V.V.; RUKHADZE, D.A.; KHOSHTARIYA, Sh.F.;
SHARASHIDZE, S.Sh.

Operation of blast furnaces with injection of natural gas.
Metallurg 7 no.9:3-7 S '62. (MIRA 15:9)

1. Rustavskiy metallurgicheskiy zavod i Gruzinskiy politekhnicheskiy
institut.

(Blast furnaces) (Gas, Natural)

RUKHADZE, D.A., inzh.; GORDEZIANI, N.N., inzh.

Blast furnace operations on natural gas. Stal' 20 no. 12:1074
D '60. (MIRA 13:12)

(Blast furnaces--Equipment and supplies)

RUKHADZE, D.A., inzh.; GORDEZIANI, N.N., inzh.

Sintering high-basicity mixtures at the Rustavi metallurgical plant.
Stal' 23 no.6:499 Je '63. (MIRA 16:10)

1. Rustavskiy metallurgicheskii zavod.

KASHAKASHVILI, N.V.; GLADKOSKOK, P.P.; KHOSHTARIYA, Sh.F.; MINDELI, M.Sh.

Prinimali uchastiye: PARASTASHVILI, V.V.; KOBERIDZE, V.G.;
CHKHEIDZE, Z.A.; RUKHADZE, E.A.; KENKEBASHVILI, O.A.; SHARASHIDZE,
S. Sh.; GOGISHVILI, A.G.; MELKADZE, N.V.; DZAMASHVILI, A.V.;
GORDEZIANI, N.N.; ABRAMISHVILI, R.N.

Performance of Transcaucasia Metallurgical Plant blast fur-
naces operating on natural gas. Trudy GPI [Gruz.] no.4:11-23
'62 (MIRA 17:8)

USSR/Microbiology - Antibiosis and Symbiosis. Antibiotics.

F-2

Abs Jour : Ref Zhur - Biol., No 10, 1958, 43239

Author : Rukhadze, E.Z.

Inst : -

Title : Study of the Mechanism in Superinfection Related to the Use of Antibiotics.

Orig Pub : Antibiotiki, 1957, 2, No 3, 22-24.

Abstract : Chlortetracycline and tetracycline were administered in different dosages to white mice perorally. These preparations inhibited development of B. coli and markedly increased amounts of proteus in the contents of the animals' intestines, but had no effect on the total number of aerobic organisms. These changes of microflora per se do not create conditions for superinfection.

Card 1/1

*Dept. Exptl. Chemotherapy, Inst. Pharmacology
& Experimental Chemotherapy AMS USSR*

RUKHADZE, E.Z.

Effect of tetracycline on intestinal microflora in children. Anti-
biotiki, 4 no.2:100-103 Mr-Apr '59. (MIRA 12:7)

1. Otdel eksperimental'noy khimioterapii (zav. - prof. A.M. Chermukh)
Instituta farmakologii i khimioterapii AMN SSSR.

(INTESTINES, microbiol.

flora, eff. of tetracycline in child, (Rus))

(TETRACYCLINE, eff.

in intestinal microflora in child. (Rus))

KIVMAN, G.Ya.; CHUMACHENKO, N.V.; SMOL'NIKOVA, N.M.; MITROFANOV, V.S.;
RUKHADZE, E.Z.

Hypersensitivity of rabbits to tetracyclines. Biul. eksp. biol. i
med. 48 no.10:52-56 O '59. (MIRA 13:2)

1. Iz otdela khimioterapii (zav. - doktor med.nauk A.M. Chernukh)
Instituta farmakologii i khimioterapii (dir. - deystvitel'nyy chlen
AMN SSSR V.V. Zakusov) AMN SSSR, Moskva. Predstavlena deystvitel'-
nym chlenom AMN SSSR V.V. Zakusovym.
(TETRACYCLINE pharmacol.)

RUKHADZE, E.Z.

Dynamics of the bactericidal action of blood serum and of the properdin system in various experimental animals. Zhur. mikrobiol. epid. i immn. 31 no.1:121-125 Ja '60. (MIRA 13:5)

1. Iz Instituta farmakologii i khimioterapii AMN SSSR.

(PROPERDIN)

(PLASMA physiology)

(BACTERIA)

L 1396-66 EWT(1)/EWA(j)/EWA(b)-2 BW

ACCESSION NR: AP5017436

UR/0248/65/000/007/0061/0066

616.927.7-092.9

AUTHOR: Rukhadze, E. Z.; Pryamukhina, N. S.; Didukh, M. S.

TITLE: Reproducing an experimental paratyphoid (Bréslau) bacteria carrier state in rabbits

SOURCE: AMN SSSR. Vestnik, no. 7, 1965, 61-66

TOPIC TAGS: experiment animal, intestinal disease, bacterial disease, bacteria, blood, morphology

ABSTRACT: In a series of experiments chinchilla rabbits (1.5-2 kg) were infected perorally with *S. typhimurium* (2.5-9 bacteria/kg dose) administered together with milk (1 ml) to induce a paratyphoid bacteria carrier state. Bacteriological, immunological, serological, and morphological indices were determined to confirm the presence of paratyphoid. In experimental animals the infectious process was characterized by fever and weight loss and in some cases anorexia and diarrhea developed. Starting with the 10th to 14th days the O- and H-agglutinin titers rose significantly. The causative agent was found in animal feces and in organs of killed animals. Morphological

Card 1/2

L 1396-66

ACCESSION NR: AP5017436

investigations revealed specific changes characterized by hyperplasia and necrosis of lymphoid tissue (Peyer's patches) and necrotic foci in the liver and kidneys. These various indices demonstrate that a paratyphoid carrier state can be successfully induced in animals. Orig. art. has: 1 figure and 1 table.

ASSOCIATION: Tsentral'nyy nauchno-issledovatel'skiy institut epidemiologii Ministerstva zdravokhraneniya SSSR, Moscow (Central Scientific-Research Institute of Epidemiology of the Ministry of Health, SSSR) 65
Moskovskiy nauchno-issledovatel'skiy institut vaktzin i syvorotok im. I. I. Mechnikova Ministerstva zdravookhraneniya SSSR (Moscow Scientific-Research Institute of Vaccines and Serums of the Ministry of Health, SSSR) 65

SUBMITTED: 21Apr65

ENCL: 00

SUB CODE: LS

NR REF SOV: 000

OTHER: 000

Card 2/2

RIUKHADZE, I Z.; PRYAMUKHINA, N.S.; KARTASHEVA, V.N.

Asymptomatic Salmonella infection in white laboratory rats. Zhur.
mikrobiol., epid. i immun. 40 no.12:119-120 D '63.

(MIRA 17:12)

1. Iz Moskovskogo instituta vaktsin i syvorotok imeni Meshnikova.

~~RUKHADZE, B. Z.~~

Effect of blood serum on yeastlike fungi of the genus Candida;
author's abstract. Zhur. mikrobiol. epid. i immun. 31 no.7:135-
136 J1 '60. (MIRA 13:9)

1. Iz Instituta farmakologii i khimioterapii AMN SSSR.
(CANDIDA) (SERUM)

RUKHADZE, E.Z.

Study of the production of tetracycline-resistant microbes in the
white mouse organism. Antibiotiki 5 no.4:98-100 JI-Ag '60.

(MIRA 13:9)

1. Otdel eksperimental'noy khimioterapii (zav. - prof. A.M. Chernukh)
Instituta farmakologii i khimioterapii AMN SSSR.
(TETRACYCLINE) (ESCHERICHIA COLI)
(PROTEUS)

NADAREYSHVILI, V.K.; KHURODZE, K.V.; RUKHADZE, G.L.; GUDIASHVILI, R.N.

Method of prospecting for sulfide deposits based on secondary
dispersion halos as revealed by the study in southern Georgia.
Geol. sbor. [Kavk.] no.2:155-166 '62. (MIRA 17:1)

2

Hydration of acetylene in the presence of liquid aerosol catalysts. V. D. Gogvadze and L. S. Rukhadze (Chem. Inst. Acad. Sci. Georgian S.S.R., Tbilisi). *Tr. Akad. Nauk S.S.R.* 7, 315-31 (1966) (in Russian).

Acetylene was hydrated with H_2O vapor in the presence of mists of liquid catalysts: (I) 20% H_2SO_4 + 0.5% $HgSO_4$; (II) H_2SO_4 90%; (III) 20% H_2SO_4 + 0.5% $(FeSO_4 + MnSO_4)$, $Fe:Mn = 1:4$; (IV) H_2SO_4 90% + 0.5% $(FeSO_4 + MnSO_4)$, $Fe:Mn = 1:3$; (V) as IV, with traces of $HgSO_4$. At the temp. (I) 73-78°, (II) 100-110°, (III) 88°, (IV) 100°, (V) 80-90°, the yields of hydration products (lower limits, disregarding the losses) were: (I) 0.25%, (II) traces, (III) 1.17%, (IV) 3.48%, (V) 13.35%. In case II there was considerable tar formation. It is noteworthy that addn. of small amts. of Fe and Mn salts to either 20% or 90% H_2SO_4 aerosol gives acceptable yields, and that Hg^{++} salt in aerosol form promotes the reaction about twice as vigorously as the usual Hg catalyst.

N. Thom

ASAC 51.4 METALLURGICAL LITERATURE CLASSIFICATION

RUKHADZE, Grigori Romanozovich; FUKS-RABINOVICH, I.I., red.;
KASHEVSKAYA, T.A., red.; NASIROV, N., tekhn. red.

[Crosshead with automatic gas cut-off valves]Krestovina s
avtomaticheskimi gazootsekatel'nymi klapnami. Baku,
Azerneshr, 1961. 40 p. (MIRA 15:9)
(Oil wells—Equipment and supplies)

ROKHADZE, I. S.

Hydration of acetylene in the presence of liquid aerosol catalysts. V. P. Gogindze and I. S. Rokhadze (Chem. Inst., Acad. Sci. Georgian S.S.R., Tbilisi). *Bull. Acad. Sci. Georgian S.S.R.* 7, 315-51 (1966) (in Russian).
Acetylene was hydrated with H_2O vapor in the presence of mists of liquid catalysts: (I) 20% H_2SO_4 + 0.5% $HgSO_4$; (II) H_2SO_4 90%; (III) 20% H_2SO_4 + 0.5% ($FeSO_4$ + $MnSO_4$), $Fe:Mn \approx 1:4$; (IV) H_2SO_4 90% + 0.5% ($FeSO_4$ + $MnSO_4$), $Fe:Mn \approx 1:3$; (V) as IV, with traces of $HgSO_4$. At the temp. (I) 75-78°, (II) 100-110°, (III) 88°, (IV) 100°, (V) 86-90°, the yields of hydration products (lower limits, disregarding the losses) were (I) 6.25%, (II) traces, (III) 1.17%, (IV) 3.49%, (V) 13.35%. In case II there was considerable tar formation. It is noteworthy that addn. of small amts. of Fe and Mn salts to either 20% or 90% H_2SO_4 aerosol gives acceptable yields, and that Hg^{2+} salt in aerosol form promotes the reaction about twice as vigorously as the usual Hg catalyst.

N. Thom

RUKHADZE, I.T.; ASATIANI, L.R.; KALANDADZE, V.A.

Principles of designing automatic control systems for pendulum-
type aerial cableways. Trudy Inst.gor.dela AN Gruz.SSR 2:155-
163 '60. (MIRA 14:10)
(Cableways) (Automatic control)

BARAMIDZE, K.M., prof.; PESVIANIDZE, A.V., dotsent; RUKHADZE, I.T., dotsent; ASATIANI, L.R., inzh.

Automatic control of the passenger cableway Chiatura-Perevisa.
Izv.vys.ucheb.zav.; gor.zhur. no.3:98-104 '58.
(MIRA 12:8)

1. Gruzinskiy politekhnicheskiy institut.
(Georgia--Cableways) (Automatic control)

KUKHADZE, L.R.

Space homology groups in a relatively directed system of open sets. *Sov. AN Ser. SSR 37 no.1:21-28* (1965). (MIA 16:10)

1. Tbilisakiy gosudarstvennyy pedagogicheskiy institut imeni A.S. Pushkina. Submitted December 21, 1964.

RUKHADZE, L.R.

Local homology groups of various kinds and their mutual relationships. Soob. AN Gruz. SSR 39 no.2:261-268 Ag '65. (MIRA 18:9)

1. Tbilisskiy gosudarstvennyy pedagogicheskiy institut imeni pushkina. Submitted December 22, 1964.

RUKHADZE, P.A.

Scattered atmospheric radiation at the high-mountain meteorological station of Kazbeg. Sbor. rab. Tbil. gidromet. obser. no.1:69-74 '60. (MIRA 14:8)

(Kazbeg region--Solar radiation)

RUKHADZE, P.Ye.

Aleksandr Valentinovich Vasil'ev; on his 60th birthday. Bot. zhur.
49 no.1:148-149 Ja '64. (MIRA 17:2)

1. Sukhumskiy botanicheskiy sad AN Gruzinskoy SSR.

RUKHADZE, P.Ye.

Growing pilocarpus in the Sukhumi Botanical Garden. Trudy Sukh.bot.
sada no.12:365-374 '59. (MIRA 14:7)
(Sukhumi—Pilocarpus)

VASIL'YEV, A.V.; DMITRIYEVA, A.A.; MAKHATADZE, L.B.; MIRZASHVILI, V.I.; MULKIDZHANYAN, Ya.I.; PRILIPKO, L.I.; RUKHADZE, P.Ye.; SAKHOKIA, M.F.; SKHIYERELI, V.S.; GULISASHVILI, V.Z., akademik, red.; AVALIANI, N.M., red.izd-va; BOKERIYA, E.N., tekhn. red.

[Woody plants of the Caucasus; wild and cultivated trees and shrubs] Dendroflora Kavkaza; dikorastushchie i kul'turnye derev'ia i kustarniki. Tbilisi, Izd-vo AN Gruz.SSR. Vol.3. [Angiospermae; Dicotyledoneae; Moraceae (mulberry family) - Platanaceae (plane-tree family)] Dendroflora Kavkaza; dikorastushchie i kul'turnye derev'ia i kustarniki. Tbilisi, Izd-vo AN Gruz.SSR. (MIRA 16:12)

1. Akademiya nauk Gruzinskoy SSR, Tiflis. Institut lesa. AN Gruzinskoy SSR (for Gulisashvili).
(Caucasus—Woody plants)

RUKHADZE, P.Ye.; PACHULIYA, K.G.

Flower forms of *Rhododendron ponticum*. Trudy Sukh.bot.sada
no.11:461-466 '58. (MIRA 13:5)
(*Rhododendron*)

VASIL'YEV, A.V.; GULISASHVILI, V.Z., akademik; DOLUKHANOV, A.G.; MANDZHAVIDZE, D.V.; MATIKASHVILI, V.I.; MAKHATADZE, L.B.; MIRZASHVILI, V.I.; ODISHARIYA, K.N.; PRILIPKO, L.I.; RUKHADZE, P.Ye.; SAKHOKIA, M.F.; SKHIYERELI, V.S.; AVALIANI, N.M., red.lzd-va; TODUA, A.R., tekhred.

[Dendroflora of the Caucasus; wild and cultivated trees and shrubs]
Dendroflora Kavkaza; dikorastushchie i kul'turnye derev'ia i kustarniki. Tbilisi. Vol.1. [Gymnospermae. Chlamydospermae. Angiospermae - Monocotyledoneae] Gymnospermae - golosemennye. Chlamydospermae - pokrovosemennye. Angiospermae - (Monocotyledoneae) - pokrytosemennye (odnodol'nye).1959. 406 p. (MIRA 13:6)

1. Akademiya nauk Gruzinskoy SSR, Tiflis. Institut lesa. 2. AN Gruzinskoy SSR (for Gulisashvili).
(Caucasus--Trees) (Caucasus--Shrubs)

RUKHADZE, P.Ye.

Results of work at the Sukhumi Botanical Garden during the past
40 years. Trudy Sukh. bot. sada no.10:5-10 '57. (MIRA 12:3)
(Sukhumi Botanical Garden)

RUKHADZE, P.Ye.; VASIL'YEV, A.V., doktor biolog.nauk, red.; GORDEZIANI, S.A., tekhn.red.

[Principal plants of the Sukhumi botanical garden; a guidebook]
Glavneishie rasteniia Sukhumskego botanicheskogo sada; pute-
voditel'. Sukhumi, Izd. Akad.nauk Gruzinskoi SSR, 1956. 150 p.
(MIRA 12:4)

(Sukhumi--Botanical gardens)

MALYSHEV, S.I., inzh.; KHOSHTARIYA, Sh.F., inzh.; GLADKOSKOK, P.P., inzh.;
RADCHENKO, F.G., inzh.; Primali uchastiye: BOKOLISHVILI, Sh.S.;
RUKHADZE, R.I.; SHARASHIDZE, S.Sh.; BEREZHNOY, N.; GORDEZIANI, N.N.;
RUKHADZE, D.A.; TATARADZE, Z.

Mastering the sintering of Dashkesan ores as acceptable charge for
open-hearth furnaces. Stal' 20 no. 7:584-590 J1 '60. (MIRA 14:5)

1. Zakavkazskiy metallurgicheskiy zavod.
(Dashkesan---Iron ores) (Sintering)
(Open-hearth furnaces---Equipment and supplies)

NAZAREVSKIY, S.I.; MAKAROV, S.N.; PILIPENKO, F.S.; GERASIMOV, M.V.; IL'INSKAYA, M.L.; VEKSLER, A.I., [deceased]; VASIL'YEV, I.M.; IL'INA, N.V.; SOKOLOV, S.Ya.; LOZINA-LOZINSKAYA, A.S.; SAAKOV, S.G.; ZALESSKIY, D.M.; AVHORIN, N.A.; IVANOV, M.I.; PRIKADOV, N.V.; SOBOLEVSKAYA, K.A.; SALAMATOV, M.N.; MALINOVSKIY, P.I.; LUCHNIK, A.I.; ERAVCHENKO, O.A.; VEKHOV, N.K.; GROZDOV, B.V.; MASHKIN, S.; BOSSE, G.G.; PALIN, P.S., (g. Shuya, Ivanovskoy oblasti); MATUKHIN; ZATVARNITSKIY, G.F.; GRACHEV, N.G.; CHERKASOV, M.I.; KIRKOPULO, Ye.N.; LEVITSKAYA, A.M.; GRISHKO, N.N.; LIKHVAR', D.F. VIL'CHINSKIY, N.M.; LYPA, A.L.; OREKHOV, M.V.; SHCHERBINA, A.A.; TSYGANKOVA, V.Z.; BARANOVSKIY, A.L.; GEORGIYEVSKIY, S.D.; STEPUNIN, G.A. OZOLIN, E.P.; LUKAYTENE, M.K.; KOS, Yu.I.; VAIL'YEV, A.V.; RUKHADZE, P.Ye.; VASHADZE, V.N.; SHANIDZE, V.M.; MANDZHAVIDZE, D.V.; KORKESHKO, A.L.; KOLESNIKOV, A.I., (g. Sochi); SERGEYEV, L.I.; VOLOSHIN, M.P.; RYBIN, V.A.; IVANOVA, B.I.; RYABOVA, T.I.; GAREYEV, E.Z.; RUSANOV, F.N.; BOCHANTSEVA, Z.P.; BLINOVSKIY, K.V.; KLYSHEV, L.K.; MUSHEGYAN, A.M.; LEONOV, L.M.

Talks given by participants in the meeting. Biul.Glav.bot.sada no.15: 85-182 '53. (MLRA 9:1)

1. Glavnyy botanicheskiy sad Akademii nauk SSSR (for Makarov, Pilipenko, Gerasimov, Il'inskaya, Veksler); 2. Akademiya komunal'nogo khozyaystva imeni K.D. Pamfilova for Vasil'yev); 3. Vsesoyuznaya sel'skokhozyaystvennaya vystavka (for Il'ina); 4. Botanicheskiy sad Botanicheskogo instituta imeni V.L.Komarova Akademii nauk SSSR (for Sokolov, Lozina-Lozinskaya, Saakov); 5. Botanicheskiy sad Leningradskogo (continued on next card)

NAZAREVSKIY, S.L.---(continued) Card 2.

gosudarstvennogo ordena Lenina universiteta (for Zalesskiy); 6. Pol'-
yarno-Al'piyskiy botanicheskiy sad Kol'skogo filiala imeni S.M. Kirova
Akademii nauk SSSR (for Avrorin); 7. Botanicheskiy sad pri Tomskom
gosudarstvennom universiteta (for Ivanov); 8. Botanicheskiy sad pri
Tomskom gosudarstvennom universiteta imeni V.V. Kuybysheva (for Prik-
ladov); 9. Tsentral'nyy Sibirskiy botanicheskiy sad Zapadno-Sibirsko-
go filiala Akademii nauk SSSR (for Salamatov, Sbolevskaya); 10. Bo-
tanicheskiy sad Irkutsko gosudarstvennogo universiteta imeni A.A.
Zhdanova (for Malinovskiy); 11. Altayskaya plodovo-yagodnaya opyt-
naya stantsiya (for Luchnik); 12. Bashkirskiy botanicheskiy sad (for
Kravchenko); 13. Lesostepnaya selektsionnaya opytная stantsiya deko-
rativnykh kul'tur tresta Goszelenkhoz Ministerstva kommunal'nogo kho-
zyaystva RSFSR (for Vekhov); 14. Bryanskiy lesokhozyaystvennyy insti-
tut (for Grozdov); 15. Botanicheskiy sad pri Voronezhskom gosudar-
stvennom universitete (for Mashkin); 16. Orekhovo-Zuyevskiy pedago-
gicheskiy institut (for Bosse); 17. Botanicheskiy sad pri Rostovskom
gosudarstvennom universitete imeni V.M. Molotova (for Matukhin); 18.
Botanicheskiy sad Kuybyshevskogo gorodckogo otdela narodnogo obrazo-
vaniya (for Zatvarnitskiy); 19. Zoobotanicheskiy sad pri Kazanskom
universitete (for Grachev); 20. Gosudarstvennyy respublikanskiy
proektnyy institut "Giprokommunstroy" (for Cherkasov); 21. Botani-
cheskiy sad Odesskogo gosudarstvennogo universiteta imeni I.I. Mechni-
kova (for Kirkopulo); 22. Botanicheskiy sad pri Dnepropetrovskom
gosudarstvennom universitete (for Levitskaya); 23. Botanicheskiy sad
(continued on next card)

NAZAREVSKIY, S.L.---(continued) Card 3.

Akademii nauk USSR (for Grishko, Likhvar', Vil'chinskiy); 24. Kiyevskiy sel'skokhozyaystvennyy institut (for Lypa); 25. Botanicheskiy sad Chernovitskogo gosudarstvennogo universiteta (for Orekhov); 26. Botanicheskiy sad pri L'vovskom gosudarstvennom universitete imeni Iv. Franko (for Shcherbina); 27. Botanicheskiy sad Khar'kovskogo gosudarstvennogo universiteta imeni A.M. Gor'kogo (for TSygan-kova); 28. Botanicheskiy sad Zhitomirskogo sel'skokhozyaystvennogo instituta (for Baranovskiy); 29. Botanicheskiy sad Akademii nauk Belorusskoy SSR (for Georgiyevskiy); 30. Institut biologii Akademii nauk Belorusskoy SSR (for Stepunin); 31. Botanicheskiy sad Akademii Litovskoy SSR (for Lukaytene); 32. Botanicheskiy sad Latviyskogo gosudarstvennogo universiteta (for Ozolin); 33. Kabardinskiy krayeved-cheskij botanicheskiy sad (for Kos); 34. Sukhumskiy botanicheskiy sad Akademii nauk Gruzinskoy SSR (for Vasil'yev, Rukhadze); 35. Batumskiy botanicheskiy sad Akademii nauk Gruzinskoy SSR (for Shanidze); 36. Tbilisskiy botanicheskiy sad Akademii nauk Gruzinskoy SSR (for Mandzhavidze); 37. Sochinskiy park Dendrariy (for Korkeshko); 38. Gosudarstvennyy Nikitskiy botanicheskiy sad imeni V.M. Molotova (for Sergeyev, Voloshin); 39. Krymskiy filial Akademii nauk SSSR (for Rybin); 40. Botanicheskiy sad Moldavskogo filiala Akademii nauk SSSR (for Ivanova); 41. Botanicheskiy sad Botanicheskogo instituta Akademii nauk Tadzhikskoy SSR (for Ryabova); 42. Botanicheskiy sad Kir-gizskogo filiala Akademii nauk SSSR (for Gareyev); 43. Botanicheskiy
(continued on next card)

NAZAREVSKIY, S.L.---(continued) Card 4.

sad Akademii nauk Usbekskey SSR (for Rusanov, Bochantseva); 44.
Botanicheskiy sad Akademii nauk Turkmenskoy SSR (for Blinovskiy);
45. Respublikanskiy sad Akademii nauk Kazakhskoy SSR (for Klyshev,
Mushegyan).

(Botanical gardens)

RUKHADZE, P.Ye.

Fructification of the ceriman. Biul.Glav.bot. sada no.18:116-117
'54. (MIRA 8:3)

1. Botanicheskiy sad Akademii nauk Gruzinskoy SSR.
(Ceriman)

HUKHADZE, R.Ye., kandidat biologicheskikh nauk.

Cultivation of agave in Abkhazia. Priroda 43 no.9:103-104 S '54.
(MLBA 7:9)

1. Sukhumskiy botanicheskiy sad Akademii nauk Gruzinskoy SSR.
(Abkhazia--Agave) (Agave--Abkhazia)

RUKHADZE, P. E.

USSR/Agriculture - Fruit growing

Card 1/1 : Pub. 86 - 24/46

Authors : Rukhadze, P. E., Cand. Biol. Sci.

Title : Growing agaves in Abkhaziya

Periodical : Priroda, 43/9, 103-104, Sep 1954

Abstract : Description is given of the varieties of agave cultivated in the subtropical region of Western Georgia for the purpose of ornamenting streets, squares and gardens. Directions for cultivation are given. Commercial use is found for the plant in the making of spirits from the juice and ropes and coarse cloth from the fiber. Illustrations.

Institution :

Submitted :

RUKHADZE, P.Ye., kandidat biologicheskikh nauk.

Acclimatization of the sensitive plant. Priroda 45 no.3:100-102
Mr '56. (MIRA 9:7)

1. Sukhumskiy botanicheskiy sad.
(Sukhumi--Sensitive plant)

Card
RUKHADZE, S. S.: Master Agric Sci (diss) -- "Methods of obtaining early harvests and two harvests of potatoes in the Tbilisi suburban zone". Tbilisi, 1958, published by the Acad Sci Georgian SSR. 25 pp (Min Agric USSR, Georgian Order of Labor Red Banner Agric Inst), 150 copies (KL, No 3, 1959, 111)

RUKHADZE, Sergey Samsonovich

[Early potatoes] [Ranni kartofel'. Tbilisi, Sabchota
Sakartvelo] 1965. 73 p. [In Georgian] (MIRA 18:7)

MIMINOVSHVILI, S.Ya.; RUKHADZE, T.I.; KUZNETSOVA, N.Kh.; MEBONYAY, L.E.;
DEKANOZISHVILI, M.Ya.; KALANDIYA, N.G.; ZARZHETSKAYA, A.S.

Active detection of glaucoma among the rural inhabitants of the Abkhazian
A.S.S.R.. Vest. oft. '73 no. 3:28-30 My-Je '60. (MIRA 14:1)
(ABKHAZIA-GLAUCOMA)

ZASEDATELEV, A.M., kand.tekhn.nauk; RUKHADZE, V.A., inzh.

Relationship between the rigidity of bellow-type transmitters
and the static pressure. Nauch.dokl.vys.shkoly; mash.i prib.
no.1:228-235 ' 58. (MIRA 12:1)

1. Predstavleno kafedroy "Pribory tochnoy mekhaniki" Moskovsko-
go vysshego tekhnicheskogo uchilishcha imeni N.E. Baumana.
(Measuring instruments)

Rukhadze V. H.

scope sensorimeter "I. Rukhadze" "Minsk"

ZASEDATELEV, S.M. (Moskva); RUKHADZE, V.A. (Moskva)

Design of force-balanced transmitters. Avtom.1 telem. 21
no.6:918-928 Je '60. (MIRA 13:7)
(Transducers)

RUKHADZE, V.A.

28(1)	PHASE I BOOK EXPLOITATION	SOV/2702
	Akademiya nauk SSSR. Institut avtomatiki i telemekhaniki. Seminar po pnevmogidravlicheskoj avtomatike. Ist. Moscow, 1957	
	Sistemy, ustroystva i elementy pnevm. i gidravtomatiki: (abornik) (Pneumatic and Hydraulic Control Devices, and Elements in Automation); [Collection of Papers] Moscow, Izd-vo AN SSSR, 1959. 233 p. Errata slip inserted. 2,700 copies printed.	
	Besp. Ed. i. M. A. Ayzerman, Doctor of Technical Sciences, Professor, Ed. of Publishing House: A. A. Tal'; Tech. Ed.: I. P. Polynova.	
	PURPOSE: This collection of papers is intended for scientific research workers and engineers in the field of design and construction of pneumatic and hydraulic equipment and accessories for automation.	
	COVERAGE: This collection contains papers read at the Seminar on Pneumatic and Hydraulic Devices for Automation, May 28, 1957. The collection is divided into the following three groups: 1) newly developed pneumatic and hydraulic circuits; 2) pneumatic and hydraulic devices, including regulating units, transmitters and hydraulic actuators, actuating mechanisms, special-purpose devices, and auxiliary equipment; and 3) elements of pneumatic and hydraulic devices for automation, such as controlled and permanent nozzles and diaphragms. No personalities are mentioned. References follow several of the papers.	
	Podgoyetskiy, M. L., and E. M. Braverman. Moscow. Three-Component Regulating Unit	30
	Dvortsevalskiy, V. M. Moscow. Small-size Hydraulic Regulating Unit, IAT AN SSSR	37
	Zasudatov, S. M., and V. A. Rubtsov. Moscow. Problems in Constructing Primary Instruments -- Differential Pressure Transmitter With Pneumatic Force Compensation	61
	This paper is a theoretical discussion of differential transmitters dealing with their sensitivity, errors, and reliability.	
	Kramentulo, Yu. V. Moscow. Electropneumatic Transducers, IAT AN SSSR	77
	Dmitriyev, V. M. Moscow. Static Characteristics of a Pneumatic Relay With Constant Pressure Drop in Nozzles	86
	This paper discusses the static characteristics of a back-pressure type pneumatic relay with indicators that are not sensitive to minute gap changes.	
	Zasudatov, S. M., and V. A. Rubtsov. Moscow. Differential Pressure Transmitters With Pneumatic Force Compensation (Review of Non-Soviet Designs)	91
	Tamlyk, V. P. Moscow. General-purpose Hydraulic Power Servo-drive	99
	Arkhangelskiy, A. P. Hydraulic Universal Variable-speed Transmission (URS)	103
	This paper describes an axial-piston variable-speed transmission. Its technical specifications and fields of application are discussed.	
	Babushkin, S. A. Leningrad. Equations for a Stabilizing System With a Hydraulic Actuator Connected With a Control Device by Hydraulic Main Lines	112
	Equations of the motion of the actuator piston and elements of the control device are given. Design examples are presented.	

MOSIN, V.H., kand. ekonom. nauk; KUKHARZEV, V.A., inzh.

Technical and economic efficiency of the standardization in
the instrument industry. Priborostroenie no.11:20-22 N '65.
(MIRA 18:12)

NIKOLAYEV, G.V., inzh.; RUKHADZE, V.A., inzh.; SHAPIRO, E.T., inzh.

Outlook for the development of a unified system of the GSP-URS
transducers. Priborostroenie no. 10:18-20 0 '65 (MIRA 19:1)

RUKHADZE, V.N.

Method of long-range forecasting of spring high-water discharge of
the Khrami River. Trudy Tbil.NIGMI no.5:177-181 '59. (MIRA 13:6)
(Khrami River--Hydrology)

RUKHADZE, V.N.

Formation of the runoff of the Khrum River and its long-term forecasting. Sbor. rab. po gidrol. no.1:91-95 '59.

(MIRA 15:2)

1. Ipravleniye gidrometeorologicheskoy sluzhby Gruzinskoy SSR.
(Khrum River--Runoff)

SOV/5519

PHASE I BOOK EXPLOITATION

Kremlevsky, P. P., Candidate of Technical Sciences, ed.

Teplotnergeticheskiye i khimiko-tekhnologicheskiye pribory i regulatory (Instruments and Regulators in Heat-Power and Chemical Engineering) Moscow, Mashgiz, 1961. 207 p. Errata slip inserted. 8,400 copies printed.

Ed. of Publishing House: G. A. Dudusova, Tech. Ed.: L. V. Shchetinina; Managing Ed. for Literature on the Design and Operation of Machines, Leningrad Department, Mashgiz: F. I. Felsov, Engineer.

PURPOSE: This book is intended for engineers and technicians who construct, design, and operate industrial instruments and regulators.

COVERAGE: The book deals with new investigations in the field of automatic checking and regulation of heat-power and chemical industrial processes. The following problems are discussed: Improvement of two-position

control operation; effect of mass action and damping on proportional control; new proportional plus integral and programming electronic regulation systems; complete automation of open-hearth furnaces; automation of boilers with variable load capacity; measurement of pulsating flow; measurement of dust flow; ultrasonic and magnetic induction flow meters; pneumatic compensating differential manometers; aggressive-fluid flow meters; new magnetic and optical-acoustic gas analyzers; concentration meters; and chlorine and coagulant regulators. The book is the fifth in a series containing reports on the investigations carried out by the Section on Heat-Engineering Control Instrumentation and Automation of the Leningradskoye promyshlennost' Nauchno-tekhnicheskogo obshchestva pri borozhitoi'noy promyshlennosti (Leningrad Branch of the Scientific and Technical Society of the Instrument-Building Industry.) All the articles presented in this book were discussed either at sessions of the above section or at the conference on measurements of mechanical quantities called by the section, the VNIM (Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii im. D. I. Mendeleeva -- All-Union Scientific Research Institute of Metrology named D. I. Mendeleev), and the Leningradskiy dom ucheykh im. A. M. Gor'kogo (Leningrad Home for Scientists named A. M. Gor'kiy). No personalities are mentioned. There are 45 references: 41 Soviet, 20 English, and 4 German. References accompany most chapters.

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PART III. MEASUREMENT OF THE CONCENTRATION OF INDIVIDUAL COMPONENTS IN GASES AND LIQUIDS

L 5360-66 ETP(b)/EWT(1)/EWA(h)/ETC(m) WW

ACC NR: AP5026109

SOURCE CODE: UR/0119/65/000/010/0018/0020

AUTHOR: Nikolayev, G. V. (Engr.); Rukhadze, V. A. (Engr.); Shapiro, E. T. (Engr.)

ORG: none

TITLE: Prospects for development of the standardized GSP-URS sensor system

SOURCE: Priborostroyeniye, no. 10, 1965, 18-20

TOPIC TAGS: sensor, transducer

ABSTRACT: A number of (GSP-URS) standardized modular industrial sensors are being developed. The standard sensors will measure the following physical quantities: pressure, pressure drop, rate-of-flow, level, temperature, gas or liquid density, viscosity, rpm, displacement, and force. All sensing elements have force as their output. Planned measuring ranges of some sensors are given, as well as pictures of laboratory models or prototypes. The development of 0--50 g and 0--50 kg force sensors, 0--500 and 0--4000 rpm sensors, 0--1000 and 10000 kg/cm² pressure sensors, 0--10 and 0--25 kg/cm² differential manometers, -30+300C no-mercury thermometers, etc. is expected. Possible sensor applications are discussed. Orig. art. has: 5 figures and 1 table.

UDC: 62.525:621.3.083.8

SUB CODE: IE/ SUEM DATE: 00/ ORIG REF: 000/ OTH REF: 000

Card 1/1

RUKHADZE, V.N.

The technique of forecasting the streamflow of the Khrum River
for periods of various length. Sbor. rab. Tbil. gidromet. obser.
no.1:87-93 '60. (MIRA 14:8)

(Khrum River—Hydrology)

AKOPDZHANOV, R.G.; VAYNSHTEYN, E.Ye.; KEYYER, N.P.; KEFELI, L.M.; RUKHADZE,
Ye.G.

X-ray absorption K-spectra of copper in some catalytically active
chelate (inner-complex) polymers. Kin. i kat. 5 no.4:616-623 J1-
Ag. '64. (MIRA 17:11)

1. Institut kataliza Sibirskogo otdeleniya AN SSSR i Institut
neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR.

RUKHADZE, Ye. G.

"Intracomplex Compounds of the Derivatives of Salicylaldehyde and Their Application in Analysis." Thesis for degree of Cand. Chemical Sci. Sub 24 May 50, Moscow Order of Lenin State U imeni M. V. Lomonosov

Summary 71, 4 Sep 52, Dissertations Presented for Degrees in Science and Engineering in Moscow in 1950. From Vechernyaya Moskva, Jan-Dec 1950.

CA

KUKHADZE, Ye. G.

7

Salicylalamines in analysis. I. Production and properties of salicylalamines. A. P. Terent'ev and Ye. G. Kukhadze (Moscow State Univ.). *Zhur. Anal. Khim.* 5, 211-213 (1959). The synthesis of 7 salicylal monoxamines and 1 diamines from an alk. soln. of salicylaldehyde and an aq. soln. of the corresponding amine is reviewed. The salicylalamines gave qual. tests with Cu^{2+} , Ni^{2+} , Co^{2+} , Fe^{2+} , Fe^{3+} , Cd^{2+} , Zn^{2+} , Hg^{2+} , and Pb^{2+} . They formed either a colored ppt. or a colored sol. complex. Most favorable conditions for the reaction were heating and pH 7-9. Many of the H₂O-insol. ppts. dissolved in pyridine, CHCl_3 , iso-AmOH, AmOH, or Et acetate forming a colored soln. M. Hosh.

TERENT'YEV, A.P.; PAKOVA, G.V.; JOEHANZE, Ye.G.

Chelate compounds with optically active ligands. Part 1: Schiff bases and the chelate compounds of copper, nickel, and cobalt (-2) with (--) -propylenediamine. Zhur. ob. khim. 34 no.9:3013-3019 3 164.

Chelate compounds with optically active ligands. Part 2: Schiff bases and the chelate compounds of copper, nickel, and cobalt (11) with (--) - α -phenylethylamine. Ibid.:3019-3024

(MIRA 17:11)

1. Moskovskiy gosudarstvennyy universitet.

TERENT'YEV, A.P.; RUEKHAZE, Ye.G.; PANOVA, G.V.; VIKTOROVA, N.M.

Chelate compounds with optically active ligands. Part 3:
Bis(o-hydroxyacetophenone)-(--)-propylenediimine and its
chelate compounds with copper, nickel, and cobalt (+2).
Zhur. ob. khim. 34 no.9:3025-3028 S '64.

(MIRA 17:11)

TERENT'YEV, A.P., BUKHADZE, YE.G.

Compounds, Complex

Theory of intracomplex compounds as analytical forms. Uch.zap.Mosk.un., no. 132, 1950.

9. Monthly List of Russian Accessions, Library of Congress, OCTOBER 1952, ~~1953~~, Uncl.

CA

Salicylalamines in analysis. II. Determination of copper and nickel with salicylalamine. A. P. Terent'ev and E. G. Rukhovich (Moscow State Univ.). *Zhur. Anal. Khim.* 6, 156 (1951). Cf. *Vechnik Moskov. Univ.* 1949, No. 2, 156 (1951). Cf. C. I. 44, 19871. Cu and Ni were pptd. with salicylalamine by a procedure somewhat different from that of Duke (C. I. 39, 6734). The difference consists in adding the reagents separately, namely, first a 2% alc. soln. of salicylaldehyde and then a 20% aq. soln. of NH_4OH . By this procedure the ppt. is cryst. and filters readily. Cu salicylalamine, m. 148°, and its compn. is stable at 100-120°. Its soly. at 19.2° is 0.94 mg. per 100 g. of soln. CHCl_3 , readily sol. in pyridine, acetone, dichloroethane, CHCl_3 , and MeOH , and on heating in EtOH . It is very slightly sol. in MeOH , ethyl acetate, CCl_4 , heptane, ligroine, and benzene. Concl. NaOH and HCl decompose the ppt. Pptn. of Cu salicylalamine begins at pH 7.5 and is complete at pH 9-10. Sensitivity of this method is 0.002 mg. of Cu per 1 ml. The Ni salt decomp. above 200° without melting. Its compn. is const. at 100-160°, and corresponds to $\text{C}_{10}\text{H}_{10}\text{N}_2\text{Ni}$. The soly. of the Ni salt is 0.86 mg. in 100 g. of soln. at 18.2°. It is sol. in pyridine and acetone, and very slightly sol. in ether, CHCl_3 , CCl_4 , ligroine, benzene, and MeOH . It is decompd. by concl. NaOH , NH_4OH , and HCl . Pptn. of the Ni salt begins at pH 8 and is complete at pH 9. The sensitivity is 0.0011 mg. of Ni in 1 ml. of soln. Salicylalamine ppt. Pb^{++} (dark brown), V^{++} (bright red), Fe^{++} (yellow), La^{+++} (bright yellow), and others. It does not ppt. Cu^{++} , Hg^{++} , Zn^{++} , Cd^{++} , and Mn^{++} . M. Hosh

BTR

7356* Salicylalamine in Analysis. III. Physicochemical and Analytical Parameters of a Series of Homologues of Salicylalalkylamine. (In Russian.) A. P. Terent'ev and E. G. Rokhadze. *Zhurnal Analiticheskoi Khimii*, v. 6, Sept.-Oct. 1951, p. 303-307.
Quantitative analysis of Cu and Ni using the above reagents was investigated. Data are discussed, tabulated, and charted.

BA

3407. Salicylidene-amines in analysis. IV. Salicylic internal
complex units of copper and nickel. A. P. Tsvetkov, E. G. Rukhadze,
and Z. A. Fedeeva (*J. anal. Chem. USSR*, 1968, 7, 126-127).—
A study is made of the complexes of Cu and Ni with dialicylidene-
diamines. There occur three metallo-cycles in the mol. instead of
two in the complexes with salicylidene-monoamines (C., 1962, 126).
Dialicylidene-ethylenediamine, *o*-phenylenediamine, and hydrazine
are of little use as reagents for Cu and Ni because of their
low solubility, but dialicylidene-propylenediamine is recommended
for the determination of Cu and Ni. The complexes are more
...

...
intensely coloured than those with the monoamines but their water
solubility is higher. G. S. Saitm.

Moscow State Univ. in. Lomonosov

1. RUKHADZE, Ye. G.
2. USSR (600)
4. Czechoslovakia - Chemistry, Technical
7. Development of the chemical sciences in Czechoslovakia. Priroda 41, no. 12, 1952.
9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

ACCESSION NR: AT4033995

S/0000/63/000/000/0123/0128

AUTHOR: Terent'yev, A. P.; Rukhadze, Ye. G.; Mochalina, I. G.; Panova, G. V.

TITLE: A study of the chelate polymer series. IX. Polymers of some thioamides and polythioamides with metals

SOURCE: Geterotsepnnyye vyssokomolekulyarnyye soyedineniya (Heterochain macromolecular compounds); sbornik statey. Moscow, Izd-vo "Nauka," 1963, 123-128

TOPIC TAGS: chelate compound, polymer, chelate polymer, thioamide, polythioamide, chelate structural property, polymer structure, chelate trans configuration, chelate cis configuration, polymerization

ABSTRACT: A large number of chelate polymers were synthesized by equimolecular reactions between thioamides or polythioamides of alpha-picoline or 2,6-lutidine in a suitable solvent (dimethylformamide, chloroform, benzene) and methanol solutions of metallic salts (Cu, Ni, Zn, Co, Mn). Yields ranged from 39 to 93%, calculated N content from 9.00 to 11.60%, determined N content from 8.12 to 11.89%, respective metal contents from 10.33 to 15.93 and 9.96 to 15.85%. The polymers obtained were yellow, green, cinnamon or orange, or in light, dark and reddish shades of these colors. Three types of chelate structures are illustrated, the presence of tetra- and pentacyclic linkages is suggested, and the authors discuss

Card 1/2

ACCESSION NR: AT4033995

the feasibility of trans- and cis-configurations. Orig. art. has: 2 tables and numerous chemical formulas.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova
(Moscow State University)

SUBMITTED: 31Jul62

DATE ACQ: 30Apr64

ENCL: 00

SUB CODE: 0C

NO REF SOV: 005

OTHER: 001

Card 2/2

RUKHADZE, E. G.

USSR/ Chemistry - Conference

Card : 1/1

Authors : Terentyeva, E. A., and Rukhadze, E. G.

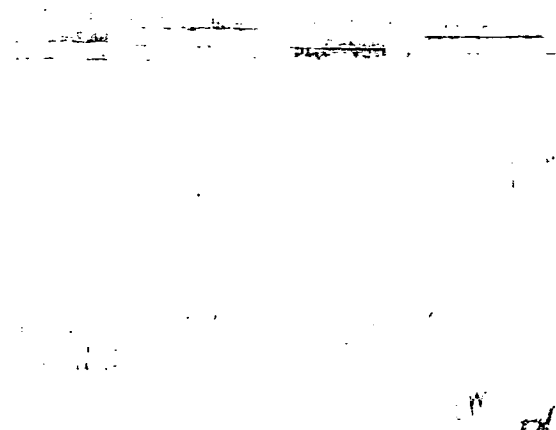
Title : Conference on complex compounds

Periodical : Priroda, ^{v. 43,} 6, 73 - 74, June 1954

Abstract : Minutes of the meeting held in Dec 1953 in Moscow under the auspices of the Institute of General and Inorganic Chemistry of the Acad. of Sciences USSR. Complex compounds were the main topic of the conference.

Institution : Acad. of Sc. USSR, Institute of Gen. and Inorg. Chemistry, Moscow

Submitted :



L 29933-65 EPF(c)/EPA(s)-2/EWP(j)/EWT(m)/EWP(b)/EWP(t) Pc-4/Pr-4/Pt-10/2

Pad IJP(c)/RPL RM/JD/HW

ACCESSION NR: AP5004602

S/0020/65/160/002/0405/0408

AUTHOR: Terent'yev, A.P. (Corresponding member AN SSSR); Vozzhennikov, V. M.; Kolninov, O. V.; Zvonkovz, Z. V.; Rukhadze, Ye. G.; Glushkova, V. P.; Berezkin, V. V.

TITLE: Semiconducting and optical properties of copper, nickel, zinc, and cadmium dithiocarbamates 27 64 62 8

SOURCE: AN SSSR. Doklady, v. 160, no. 2, 1965, 405-408

TOPIC TAGS: copper dithiocarbamate, nickel dithiocarbamate, zinc dithiocarbamate, cadmium dithiocarbamate, dithiocarbamate semiconducting property, dithiocarbamate optical property, organic semiconductor, chelate electrical property, polychelate conductivity, activation energy

ABSTRACT: This paper is part of a study of a series of chelates and polychelates aimed at determining the dependence of their electrical properties on their atomic structure and nature of their chemical bonds: this in turn is vital in the synthesis of organic semiconductors. In this work, it was found that the electrical conductivity depends on the concentration of the metal in the sample more than on the nature of the metal, as indicated by the highly conductive copper compounds. All the chelates and polychelates studied were substances with high electrical resistance. On the basis of their absorption spectra,

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ACCESSION NR: AP5004602

several types of electronic transitions were established, and the thermal activation energy E_{therm} was compared with the optical activation energy E_{opt} . It was concluded that the semiconducting parameters are determined primarily by the nature of the metal - ligand chemical bond, and not by the crystal structure or superstructure. Orig. art. has: 3 figures, 1 table and 2 formulas.

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova (Physicochemical institute); Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova (Moscow state university)

SUBMITTED: 04Aug64

ENCL: 00

SUB CODE: OC, EM

NO REF SOV: 004

OTHER: 000

Card 2/2

L 36631-65 EWT(m)/EPF(c)/EWP(j)/T PC-4/Pr-4 RM
ACCESSION NR: AP5001514 S/0020/64/159/005/1059/1061 34
32B

AUTHOR: Anufriyenko, V. G. ; Mamayeva, Ye. K. ; Keyyer, N. P. ; Kefeli, L. M. ;
Rukhadze, Ye. G. ; Terent'yev, A. P. (Corresponding member AN SSSR)

TITLE: Study of the EPR spectra of Cu(II) α -thiopicolinanilide complex 7

SOURCE: AN SSSR. Doklady, v. 159, no. 5, 1964, 1059-1061

TOPIC TAGS: chemical structure, electron paramagnetic resonance, chelate complex, copper alpha-thiopicolinanilide complex

ABSTRACT: It is of great importance to investigate the electronic structure of monomeric links of chelate polymers. This article presents the results of the investigation of the EPR spectra of Cu(II) α -thiopicolinanilide complex (CuII-TPA) in the polycrystalline state and in solutions. The structure of this complex, which is a monomer analog of chelate polymers, is shown in figure 1. This complex was obtained as a brown crystalline precipitate by reacting α -thiopicolinanilide with cupric acetate in a methanolic medium. The EPR spectrum of CuII-TPA is shown in figure 2. It is concluded on the basis of this work that CuII-TPA is a

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L 36631-65

ACCESSION NR: AP5001514

coplanar complex in which the Cu-N bond and the Cu-S bond are predominantly covalent. Orig. art. has: 3 figures

ASSOCIATION: Institut kataliza Sibirskogo otdeleniya Akademii nauk SSSR
(Institute of Catalysis of the Siberian Branch of the Academy of Sciences, SSSR);
Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University)

SUBMITTED: 01Aug64

ENCL: 02

SUB CODE: OC, NP

NR REF SOV: 007

OTHER: 003

Card 2/4

LARIN, G.M.; PANOVA, G.V.; RUKHADZE, Ye.G.

Electron paramagnetic resonance of copper compounds with
oxyaldimines. Zhur.strukt.khim. 6 no.5:699-705 S-3 '55.

(MIRA 18:12)

1. Institut obshchey i neorganicheskoy khimii imeni N.S.
Kurnakova AN SSSR i Moskovskiy gosudarstvennyy universitet
M.V.Lomonosova. Submitted May 7, 1965.

TEREKHIN, A.F.; RUKHADZE, Ye.G.; PANOVA, G.V.; SHIGORIN, D.M.

Infrared spectra of the optically active chelate compounds of copper and nickel with oxaldimines and oxyketimines. Zhur. fiz. khim. 39 no.4:1002-1006 Ap '65. (MIRA 19:1)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova i Fiziko-khimicheskiy institut imeni Karpova, Moskva. Submitted May 13, 1964.

L 3666-66 EWT(m)/EPF(c)/EWP(j) RM

ACCESSION NR: AP5017841

UR/0286/65/000/011/0078/0078

678.763.043

AUTHOR: Terent'yev, A. P.; Yermolayev, A. V.; Rukhadze, Ye. G.; Ipozemtseva, A. V.;
Bobrova, N. I.; Malaya, Z. I.; Lobova, A. N.

TITLE: Vulcanization process for fluorocarbon elastomers. Class 39, No. 171567

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 11, 1965, 78

TOPIC TAGS: fluorocarbon elastomer, vulcanization, vulcanizing agent

ABSTRACT: An Author Certificate has been issued for vulcanizing agents for fluoro-
carbon elastomers. To improve the physical and mechanical properties of the vulcan-
izates and to simplify the vulcanization process, the vulcanizing agents used are
cobalt N, N'-ethylenebis(salicylideneimine) and/or titanium salicylideneimine. [SM]

ASSOCIATION: none

SUBMITTED: 21Apr62

ENCL: 00

SUB CODE: MT

NO REF SOV: 000

OTHER: 000

ATD PRESS: 4047

Card

1/1

TERENT'YEV, A.P.; STROGANOV, N.S.; RUKHADZE, Ye.G.; KHOBOT'YEV, V.G.

Use of polymetallic ores and their products as algicides. Dokl.
AN SSSR 164 no.4:928-930 0 '65. (MIRA 18:10)

1. Moskovskiy gosudarstvennyy universitet. 2. Chlen-korrespondent
AN SSSR (for Terent'yev).

L 61480-65 ENT(m)/EPF(c)/EWP(j)/T Pc-4/Pr-4 JAJ/RM

ACCESSION NR: AP5016413

UR/0079/85/035/006/1104/1110
541.49: 547.415.3

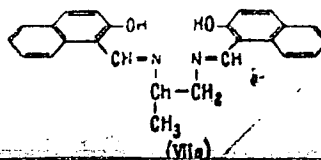
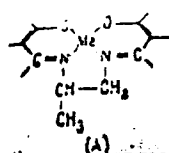
AUTHOR: Terent'yev, A.P.; Rukhadze, Ye. G.; Panova, G.V.; Viktorova, N.M.

TITLE: Chelates with optically active ligands. Part 4. Chelates of copper and nickel with hydroxynaphthalaldimine and hydroxyketimines

SOURCE: Zhurnal obshchey khimii, v. 35, no. 6, 1965, 1104-1110

TOPIC TAGS: copper organic compound, nickel organic compound, chelate, complex compound, optically active ligand, steric hindrance, Schiff base, molecular rotation

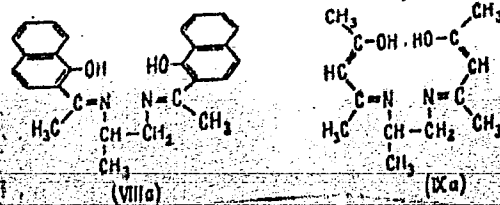
ABSTRACT: The aim of this study was to determine the effect of steric factors and of the character of the aldehyde and ketone components on the rotatory dispersion of the corresponding chelates. The following compounds were synthesized: bis (β -hydroxy- α -naphthal)-(-)-propylenediimine (VIIa), bis (α -hydroxy- β -acetonaphtho)-(-)-propylenediimine (VIIIa), and bis (acetylacetone)-(-)-propylenediimine (IXa).



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L 61480-65

ACCESSION NR: AP5016413



From these Schiff bases, copper chelates (VIIa Cu, VIIIa Cu, IXa Cu) and nickel chelates (VIIa Ni, VIIIa Ni, IXa Ni) containing the same chelate unit (A) were obtained. Rotatory dispersion curves and absorption spectra in dimethylformamide were recorded for all the Schiff bases and chelates, and their interpretation is given. It was found that a change in ligand (from benzene derivatives to naphthalene and acetylacetone derivatives) was reflected in the absolute value of the molecular rotation, and also caused slight shifts in the characteristics peaks and troughs on the rotatory dispersion curves along the wave length axis; however, the shape of these curves remained largely unchanged because the basic chelate unit, which determines the character of the rotation, remained the same. The increase in molecular rotation in

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L 61480-65

ACCESSION NR: AP5016413

passing from aldehyde to ketone derivatives is apparently due to steric hindrance, which disrupts the coplanarity of the molecules. Orig. art. has: 4 figures, 1 table and 4 formulas.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova
(Moscow State University)

SUBMITTED: 17 Feb 64

ENCL: 00

SUB CODE: OC

NO REF SOV: 004

OTHER: 006

Card ^{DR} 3/3

TERENT'YEV, A.P.; VOZZHENNIKOV, V.M.; KOLNINOV, C.V.; ZVONKOVA, Z.V.;
RUKHADZE, Ye.G.; GLUSHKOVA, V.P.; BEREZKIN, V.V.

Semiconducting and optical properties of the dithiocarbamates of
copper, nickel, zinc, and cadmium. Dokl. AN SSSR 160 no.2:405-
408 Ja '65. (MIPA 18:2)

1. Fiziko-khimicheskiy institut im. L.Ya. Karpova i Moskovskiy
gosudarstvennyy universitet. 2. Chlen-korrespondent AN SSSR
(for Terent'yev).

ANUFRIYENKO, I.F.; MAMAYEVA, Ye.K.; KEYYER, N.P.; KEFELI, L.M.; TEREENT'YEV,
A.P.; RUKHADZE, Ye.G.

Electron paramagnetic resonance spectra of copper (II) α -thiopicolin-
anilide. Dokl. AN SSSR 159 no.5:1059-1061 D '64 (MIRA 18:1)

1. Institut kataliza Sibirskogo otdeleniya AN SSSR i Moskovskiy
gosudarstvennyy universitet. 2. Chlen-korrespondent AN SSSR (for
Terent'yev).

SHUGAM, Ya.A.; BERGER, L.I.; RUKHADZE, Ye.G.; PANOVA, G.V.

Absorption spectra, conductance and its energy of activation of some salicylal-N-alkylamines. Zhur. fiz. Khim. 39 no.2:481-483 (MIRA 18:4) P '65.

I. Institut khimicheskikh reaktivov Vsesoyuznogo nauchno-is-sledovatel'skogo institut khimicheskikh reaktivov i ozobo-chistykh khimicheskikh veshchestv i Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

TERENT'YEV, A.P.; MOCHALINA, I.G.; RUKHADZE, Ye.G.; POVOLOTSKAYA, Ye.M.

Chelate polymers. Part 10: Some physicochemical studies of
chelate polymers based on thioamides and polythioamides of
pyridine derivatives. Vysokom. soed. 6 no.7:1267-1271 J1 '64
(MIRA 18:2)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

PAVLOV, Boris Alekseyevich; TEREENT'YEV, Aleksandr Petrovich,
prof. Primal uchastiye KORSUNSKIY, O.V.; RUKHADZE,
Ye.G.; ZITSER, A.I., red.

[Course in organic chemistry] Kurs organicheskoi khimii.
Izd.5., perer. Moskva, Khimiia, 1965. 686 p.
(MIRA 18:5)

1. Chlen-korrespondent AN SSSR (for Terent'yev).

TERENT'YEV, A.P.; RUKHADZE, Ye.G.; PANOVA, G.V.; VIKTOROVA, N.M.

Chelate compounds with optically active ligands. Part 4: Copper and nickel chelates with hydroxynaphthalidine and hydroxyketimines. Zhur. ob. khim. 35 no.6:1104-1110 Je '65. (MIRA 18:6)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

L 48987-6 EWP(j)/EWT(m)/T Fe-h PM

ACCESSION NO: AP5011474

UR/0076/65/039/004/1002/1006

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18
B

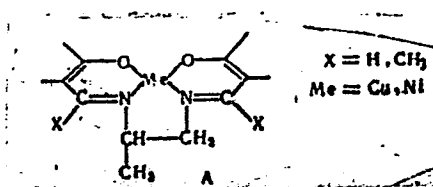
AUTHOR: Terent'yev, A. P.; Rukhadze, Ye. G.; Panova, G. V.; Shigorin, D. N.

TITLE: Infrared spectra of optically active chelates of copper and nickel with hydroxyaldimines and hydroxyketimines

SOURCE: Zhurnal fizicheskoy khimii, v. 39, no. 4, 1965, 1002-1006

TOPIC TAGS: infrared spectrum, copper chelate, nickel chelate, optical activity, hydroxyaldimine, hydroxyketimine, steric hindrance

ABSTRACT: The paper continues a study of optically active chelates containing the chelate unit A:



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L 48987-65

ACCESSION NR: AP5011474

The IR spectra were recorded with a Hilger spectrometer using KBr pellets. The results, which are fully tabulated, show that an increase in steric hindrance in the molecules (associated with the substitution of $X=CH_3$ for $X=H$) causes a decrease in the frequency of the stretching vibrations of the $C=N$ group included in the quasi-aromatic ring. A comparison of compounds with the same steric factor indicates that with a decrease in the order of the $C=C$ bond, on which the metal ring is built, the vibrational frequency of the $C=N$ group increases. Bands which characterize the deformation vibrations of $C-H$ and the vibrations of $C=N$ groups are located in the range of $1430-1470\text{ cm}^{-1}$. The frequencies of $1430-1385\text{ cm}^{-1}$ and $1370-1356\text{ cm}^{-1}$ characterize plane deformation vibrations of CH_3 and CH_2 groups. Bands at $1195-1190\text{ cm}^{-1}$ correspond to plane deformation vibrations of $C-H$ groups. Frequencies of $770-800\text{ cm}^{-1}$ correspond to nonplanar vibrations of the $C-H$ groups. In the range below 670 cm^{-1} are located frequencies characterizing the deformation vibrations of the chelate unit and the stretching vibrations of $Me-O$ and $Me-N$. Orig. art. has: 1 figure and 2 tables.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University); Fiziko-khimicheskiy institut im. L. Ya. Karpova (Physicochemical Institute)

SUBMITTED: 13May64

NO REF SOV: 004

ENCL: 00

SUB CODE: 0C, OP

OTHER: 005

Card 2/2 *ms*

L 16060-65 EWT(m)/EPF(c)/EWP(j)/EWP(t)/EWP(b) PC-4/Pr-4/Pad 1JP(c)/
 RPL/ESD(gs)/BSD/AFWL/ASD(a)-5/AS(mp)-2/APGC(b) JD/JH/HW/RM
 S/0079/64/034/009/3013/3019
 ACCESSION NR: AP4046176

AUTHOR: Terent'yev, A. P.; Panova, G. V.; Rukhadze, Ye. G.

TITLE: Chelates with optically active ligands I. Schiff bases and chelates of
 copper, nickel and cobalt (+2) with (-) propylenediamine

27 27 27
 SOURCE: Zhurnal obshchey khimii, v. 34, no. 9, 1964, 3013-3019

TOPIC TAGS: Schiff base, copper chelate, nickel chelate, cobalt chelate, propyl-
 enediamine, Schiff base synthesis, Schiff base optical activity, chelate optical
 activity, rotational dispersion, salicyl aldehyde, ring substituent, absorption
 spectrum

ABSTRACT: The history of the study of complexed compounds is presented.
 Their optical properties yield information on their structure. The paper describ-
 ed methods and reports yields of the synthesis of optically active Schiff bases
 from propylenediamine and substituted salicyl aldehyde (5-chloro, 5-bromo, 3-
 methoxy) by boiling 0.01 g/mole propylenediamine and 0.02 g/mole of the corres-
 ponding aldehyde in methanol; the chelates are obtained from these Schiff bases

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L 16060-65
ACCESSION NR: AP4046176

with the corresponding acetate. The structural formulas are presented. Rotational dispersion curves in the 640-450 m μ range and absorption spectra were determined. These are figured. The presence of substituents at the aldehyde component (Cl, Br, NO₂, OCH₃) had no significant influence upon the rotational dispersion of the Schiff bases and chelates. The influence of the OCH₃ group was somewhat greater, due probably to the action of this group upon the hydrogen bond. The orig. art. has: 4 figures, 5 tables and 2 formulas.

ASSOCIATION: None

SUBMITTED: 31May63

ENCL: 00

SUB CODE: GC, MT

NO REF SOV: 005

OTHER: 019

Card 2/2

L 16059-65 EWT(m)/EPF(c)/EWP(j) pc-4/pr-4/pa-4 ESD(gs)/BSD/AFWL/
 ASD(a)-5/AS(mp)-2/RAEM(a)/APGG(b)/RPL JW/RM
 ACCESSION NR: AP4046177 S/0079/64/034/009/3019/3024

AUTHOR: Terent'yev, A. P. ; Panova, G. C. ; Rukhadze, Ye. G.

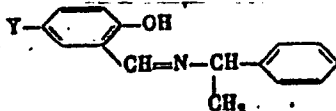
TITLE: Chelates with optically active ligands II. Schiff bases and chelates of copper, nickel and cobalt(+2) with (-) alpha-phenylethylamine

SOURCE: Zhurnal obshchey khimii, v. 34, no. 9, 1964, 3019-3024

TOPIC TAGS: chelate, ligand, optically active ligand, copper chelate, nickel chelate, cobalt chelate, alpha-phenylethylamine, Schiff base, substituted salicyl aldehyde, rotational dispersion, absorption spectrum

ABSTRACT: Referring to report I. in the preceding pages which dealt with synthesis and spectropolarimetric data of similar compounds with propylenediamine, the authors investigated compounds with α -phenylethylamine, synthesizing Schiff bases of the following structure

(Ib) Y = H; (IIb) Y = Cl; (IIIb) Y = Br;
 (IVb) Y = NO₂.



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